

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 77-50

WASTEWATER RECLAMATION REQUIREMENTS FOR
SAN FRANCISCO REDEVELOPMENT AGENCY AND
CITY AND COUNTY OF SAN FRANCISCO,
SOUTHEAST TREATMENT PLANT

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter called the Board, finds that:

1. The City and County of San Francisco, hereinafter referred to as the Discharger, and The San Francisco Redevelopment Agency submitted a Report of Waste Discharge dated April 22, 1977.
2. The San Francisco Redevelopment Agency proposes to divert up to 150,000 gallons per day of treated municipal wastewater from San Francisco's Southeast Treatment Plant for use by contractors performing earth compaction at construction sites in the Hunters Point and India Basin areas. Wastewater will be provided to contractor's tank trucks from a storage tank located at the treatment plant effluent pump station.
3. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Public Health, and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. The use of reclaimed water for the purposes specified in Paragraph 2 could affect the public health, safety, or welfare, and requirements for those uses are therefore necessary in accordance with the Water Code.
4. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in April 1975. The water quality objectives for reclaimed wastewater, as set forth in the Basin Plan specify those limits prescribed in Title 17, Section 8025 through Section 8050, California Administrative Code. These objectives have been superceded by Title 22, Section 60501 - 60357, California Administrative Code (Statewide Reclamation Criteria).
5. The wastewater reclamation requirements are in conformance with the statewide reclamation criteria established by the State Department of Health and are in conformance with the Policy and Action Plan for Water Reclamation adopted by the State Water Resources Control Board in January 1977.

6. The proposed use of reclaimed wastewater involves a minor alteration to land and as such is exempt from the provisions of the Environmental Quality Act of 1970 as a Class 4 exemption pursuant to Section 15104 of the California Administrative Code (State EIR Guidelines). The project will not have a significant effect on the environment.
7. This Board in a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the City and County of San Francisco and the San Francisco Redevelopment Agency, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Wastewater Use Specifications

1. The treatment, distribution or reuse of reclaimed wastewater shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The reclaimed wastewater shall be at all times an adequately disinfected, oxidized wastewater and shall meet the following quality limits at all times:

Dissolved Oxygen	1.0 mg/l minimum
Dissolved Sulfide	0.1 mg/l maximum
Coliform Organisms	Median MPN shall not exceed 240 coliform organisms per 100 milliliters of sample at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven (7) analyses. Coliform organisms shall not exceed 10,000 MPN/100 ml at any time.

Reclamation shall cease whenever the above limitations are violated.

3. Storage tanks, all tank trucks and spray equipment which may at any time contain wastes shall be adequately and clearly identified with warning signs and discharger and user shall make all necessary provisions, in addition, to inform the public that the liquid contained is sewage and is unfit for human consumption.
4. The public shall be prohibited from entering the construction site and reclaimed wastewater shall be applied so as to prevent contact with construction workers.

B. Reclaimed Wastewater Use Prohibitions

1. No wastewater shall be applied to soils which are saturated.
2. No reclaimed wastewater shall be allowed to escape the specified use areas, either by surface flow or airborne spray.
3. Ponding shall not be allowed to occur except for minor amounts incidental to careful application practice.

C. Provisions

1. A licensing system and surveillance program shall be developed by the San Francisco Redevelopment Agency for the control of trucking operations. Each truck driver issued a license must be instructed as to the requirements contained herein and the potential health hazards associated with the reuse of wastewater. Use of reclaimed wastewater shall not commence until the licensing and surveillance program has been established and approved by the Executive Officer.
2. This Order includes items numbered 1 through 8 of the attached "Standard Provisions for the Use of Reclaimed Water" dated March 15, 1973. The term user shall mean the City and County of San Francisco.
3. No reclaimed wastewater to be applied for the uses specified in this Order shall be dechlorinated.
4. The Board approves additional use locations for the uses specified in this Order, as reasonably authorized by the San Francisco Redevelopment Agency subject to the limitations of this Order.
5. The Executive Officer may withdraw authorization for specific uses in the event that the terms and conditions of this Order are violated in such uses.
6. The Discharger is required to submit each month a report according to the schedule for sampling, measurement, and analysis given in Table I (attached). The information shall be submitted to both the Regional Board and County Health Department on the attached monitoring summary report form. Observations at each use area shall be made daily by an inspector representing the San Francisco Redevelopment Agency. The inspector shall particularly check for the presence of odors, ponded water, and runoff from the approved use area. Any contact workers may have with wastewater shall be prevented.

7. No wastewater shall be provided users unless the truck driver holds an authorization issued by the San Francisco Redevelopment Agency. Said authorization shall include user's name, driver's name, authorized uses and locations, and a summary of use restrictions as specified in this Order. This authorization shall be presented on request to the staff of the Regional Board.
8. The discharger and users shall take all measures necessary to **prohibit** public contact with reclaimed wastewater.
9. The San Francisco Redevelopment Agency is required to submit a report by the end of each calendar year to include the following:
 - a. Locations at which and volumes of reclaimed wastewater which have been used.
 - b. Construction projects which have benefited from the use of reclaimed wastewater.
 - c. Community acceptance, benefits and costs of the reclamation program.
 - d. Any adverse impacts of the program, including possible hazards to public health or degradation of ground or surface waters.
10. This Order expires on January 1, 1978, unless extended by the Executive Officer due to continued drought conditions.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 17, 1977.

FRED H. DIERKER
Executive Officer

Attachments:

"Standard Provisions for the Use of
Reclaimed Wastewater" dated 3/15/73
Table I
Monitoring Summary Form

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

MARCH 15, 1973

STANDARD PROVISIONS
FOR THE USE OF
RECLAIMED WATER

1. This Board requests the user to take note of the comments and recommendations contained in all the correspondence the Board has received and considered concerning this matter, and the Executive Officer is directed to transmit copies of that correspondence to the user.
2. This Board considers "Waters of the State" as defined in Section 13050(e) of the California Water Code to include wastewaters over which the user has lost control.
3. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the user from his liabilities under Federal, State, or local laws, nor guarantee the user a capacity right in the receiving waters.
4. The discharge of any radiological, chemical, or biological warfare agent or high level radiological waste is prohibited.
5. The user shall file with the regional board technical reports on self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
6. The user shall permit the Regional Board or its authorized representative:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under terms and conditions of this order.
 - c. Inspection of any monitoring equipment or method required by this order.
 - d. Sampling of any discharge.
7. The user shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the user to achieve compliance with the water reclamation requirements.
8. The user shall file with the regional board a report on waste discharge at least 180 days before making any material change or proposed change in the character, location or volume of reuse.

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES
City and County of San Francisco
and
San Francisco Redevelopment Agency

SAMPLING STATIONS	E-001 thru E-00'n'								
TYPE OF SAMPLES									
Reclaimed Wastewater Volume (gallons/day)	D 2/								
Coliforms (MPN)	D 2/								
Chlorine Residual (mg/l)	2H or cont 1/2/								
Dissolved Sulfide	W								
Dissolved Oxygen	D								

LEGEND

Type of Sample
G = grab sample
O = observation

Frequency of Sampling
2H = every 2 hours
D = daily
W = once each week
2W = every 2 weeks

Station

E-001

thru

E-00'n' = station (s) representative of
treatment plant effluent
being diverted for reclamation

1/Samples shall be taken during working hours provided all tank trucks are filled during this period of time

2/Samples are required to be taken only on days any reclaimed wastewater is being diverted

MONITORING SUMMARY FOR WASTEWATER RECLAMATION

DISCHARGER: CITY & COUNTY OF SAN FRANCISCO - SOUTHEAST PLANT ORDER NO. 77- 50

YEAR	FLOW	TOTAL COLIFORM		CHLORINE RESIDUAL	DO		DISSOLVED SULFIDE	
MONTH								
DAY	TOTAL GALLONS RECLAIMED	MPN/100 ml	MPN/100 ml 7 DAY MEDIAN (MPN/100 ml)	mg/l DAILY MINIMUM	mg/l (1.0 mg/l min)		mg/l (0.1 mg/l max)	
1								
2								
3								
4								
5								
6								
7								
8								
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10								
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24								
25								
26								
27								
28								
29								
30								
31								
MIN								
MAX								
AVE								

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